

FOLIO

University of Alberta

19 November 1987

Fall Convocation

A Notable Day in the Life for 1,499 Achievers

The Faculty of Graduate Studies and Research will present more graduands (446) than any other Faculty at fall convocation, today (19 November) and Saturday (21 November), beginning at 2 p.m. in the Jubilee Auditorium. Degrees will be conferred upon a total of 1,495 students with Chancellor Tevie Miller presiding over both ceremonies.

Students from the Faculties of Arts, Education, Home Economics, Law, Faculté Saint-Jean, and Science will be awarded their degrees today. Stephen Jarislowsky, one of Canada's foremost investment counsellors,

will receive an honorary degree and will deliver the convocation address. Renowned chemist and alumnus, Allan Hay, will also be awarded an honorary degree. Allan Warrack, Vice-President (Administration), will present the report to convocation.

On Saturday, Alberta Special Projects Minister Neil Crawford and Edmonton's "Mr. Music", Tommy Banks, will receive honorary degrees. Mr. Banks will deliver the convocation address and Bob James, Vice-President (Research), will give the report to convocation. Graduates from Agriculture and Forestry, Business,

Dentistry, Engineering, Graduate Studies and Research, Medicine, Nursing, Pharmacy and Pharmaceutical Sciences, Physical Education and Recreation, and Rehabilitation Medicine will be awarded degrees. □

United Way: Keep Those Donations Coming

We are more than two-thirds of the way to our University goal for the United Way campaign, according to figures released late last Friday afternoon by Peter Portlock, chairman, Health and Education Division, United Way Campaign.

Campus donations totalled \$105,950 at that point.

With the University target set at \$137,250, that leaves \$31,300 to be raised before the campaign ends officially on 23 November.

If it slipped your mind until today, now is the time to make a contribution. For information, call Ann Fox in the Comptroller's Office, 432-3207. □



Play your part

United Way
of Edmonton and Area



Endowment and Incentive Fund's Coffers Expand

Dave Russell, Minister of Advanced Education, has announced Cabinet approval of a Special Warrant in the amount of \$18 million for the Advanced Education Endowment and Incentive Fund.

The Fund provides two matching dollars for every dollar raised privately by Alberta's public post-secondary institutions to create endowments, and one dollar for each operating and capital dollar donated. The sum of \$80 million was committed to the Fund for a period of eight years, starting in 1986. To date, \$26 million has been spent.

"The idea of enriching our post-secondary education system by matching funds raised privately by the institutions has turned out to be very successful. This was the second \$80 million program to be created; the first was expended in five years. The program has greatly exceeded our expectations . . . it has been over-subscribed by approximately \$18 million in this fiscal year," Mr. Russell said.

The additional \$18 million will pay out grants from the Advanced Education Endowment and Incentive Fund to accommodate all eligible donations that institutions have on hand. It is anticipated the

institutions will receive these funds over the next few weeks.

Meanwhile, Advanced Education has formed a new Policy Advisory Committee. The committee replaces four Ministerial Advisory Committees that were struck in 1974: College Affairs, Student Affairs, University Affairs and Further Education. The new committee will continue to facilitate public participation in the development of provincial policy as *Continued on page three*



Tommy Banks



Neil Crawford



Allan Hay



Stephen Jarislowsky

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President's Advisory Committee on Sexual Harassment (PACSH): Summary Annual Report

The President's Advisory Committee on Sexual Harassment (PACSH) was established in October 1982 with the approval of the four constituent associations—the Students' Union, the Non-Academic Staff Association, the Graduate Students' Association and the Academic Staff Association. This is PACSH's fifth annual report to the campus community. It covers the period 1 July 1986 to 30 June 1987.

Educational Program

PACSH's primary mandate is to educate the campus community about sexual harassment issues. In 1986-87, PACSH asked all Deans for invitations to provide information sessions for their Faculty Councils. Sessions were also held for Senate, the Academic Women's Association, the Graduate Students' Association Council, the Council of Undergraduate Faculty Associations and for new academic administrators. An information

session was held during the International Students' Orientation and for incoming Lister Hall floor coordinators. At the request of Physical Plant, information sessions were provided for all maintenance and custodial staff. Four public sessions were held in November 1986.

At each of these information sessions, we explain the University's definitions of sexual harassment, describe our role in resolving sexual harassment situations early, quickly and informally, and show one of several sexual harassment videos now owned by the University. We state the University's view that we are committed to taking prompt action when formal complaints of sexual harassment are brought forward, and explain that both ethically and legally, the University is opposed to sexual harassment in its many forms. Questions are invited throughout the information sessions. We continue to be asked questions about sexual harassment, sex discrimination, sexist treatment

on the job, sexist comments in the classroom, the display of pin-ups in offices, and about dating between teachers and students or between supervisors and employees.

New Procedures

From 1982 through 1986, PACSH's procedures allowed it to investigate formal written complaints of sexual harassment. The original procedures, however, did not allow PACSH to discipline offenders. From now on, formal investigation and the discipline of members of the University community will occur either under the Code of Student Behavior (if the offender is a student) or under contractual agreements (if the offender is academic staff or support staff). PACSH now only investigates formal written complaints where the offender is not covered under the Code of Student behavior or under a negotiated or legislated contract.

Part of our continuing role is to assist people with sexual harassment problems by assessing complaints, by advising people on how to document a case and by assisting people in preparing and submitting a formal written complaint. This one-to-one confidential advising has been a successful means of resolving complaints. During the next year, we will introduce mediation as another method of informal resolution.

Sexual Harassment Problems: 1986-87

People who seek our advice about sexual harassment problems usually want the situation resolved quickly and confidentially. Most members of the University community who seek our advice either drop into the administrative office in 2-1 University Hall or call the TALK line (432-TALK). We assess the problem and help devise a strategy for informal resolution. Most people are afraid to confront the person whose behavior is offensive for fear of retaliation. Some choose to write a letter to the alleged harasser or to seek help from the head of their unit.

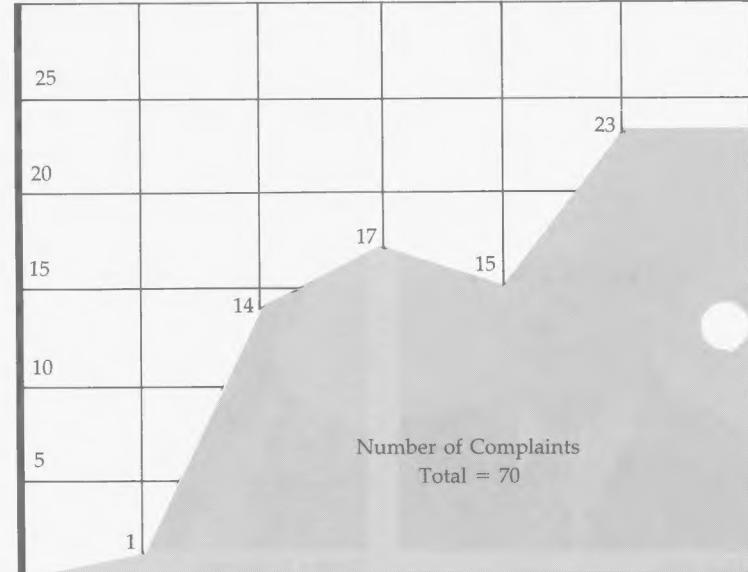
During 1985-86, PACSH received 15 complaints of sexual harassment from men and women and from all four constituent groups.

During 1986-87, 23 complaints of sexual harassment were received.

During this past year, many complainants eventually decided to seek the help of their supervisor or the department head. In instances where the safety of the complainant was involved, assistance from Campus Security was provided. Some complainants told us that they were not willing to take formal action as yet but wanted advice on how to document a continuing case of sexual harassment. During this past year, we had 13 cases which involved allegations of sexual harassment by someone in a direct position of authority over the complainant.

Case Statistics: 1982-87

	82-83	83-84	84-85	85-86	86-87
25					
20					
15					
10					
5					
1					



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Office of Public Affairs
423 Athabasca Hall
University of Alberta T6G 2E8
(403) 432-2325

All enquires and correspondence should be directed to:
Ron Thomas
Editor

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of
Alberta

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PACSH *Continued from page two*

We believe that the sharp rise in the number of problems reflects the increasing willingness of complainants to come forward to a confidential advisory service. We also believe that the increased number of complaints is a direct result of our active educational campaign. As was the case last year, complaints came from both men and women. People experiencing sexual harassment came from all four constituent groups on campus. In addition, the alleged harassers came from all four constituent groups. In other words, no one seems to be exempt, either from being the harasser or the victim.

Members of the University community may report cases of sexual harassment to agencies or individuals other than PACSH. From 1982 to 1986, a total of 9 additional cases were reported to other offices and then subsequently reported to us in statistical form. These cases are *not* included in the attached table. □

University of Alberta Sexual Harassment Summary Statistics 1982-87 Complainant

Undergraduate	31
Graduate	12
Academic Staff	9
Non-Academic Staff	14
Group not revealed	4
Total*	70

*10 Males, 58 Females, 2 Gender Not Revealed

Alleged Harasser

Undergraduate	19
Graduate	12
Academic Staff	24
Non-Academic Staff	6
Group not revealed	9
Total*	70

*58 Males, 7 Females, 5 Gender Not Revealed

Notes

1. Of the 70 total complaints, 15 (21 percent) were third-party complaints and 9 (13 percent) were made by more than one person. All group complaints are counted as a single entry in the table.
2. Some cases of same-sex harassment are represented by these figures.

Endowment Fund *Continued from page one*

it pertains to post-secondary education.

In accordance with Section 5 of *The Department of Advanced Education Act*, the Minister has established the mandate for the new committee as follows:

- to operate as a vehicle to which the public can make representation on any aspect of post-secondary education;
- to provide an investigative function to enquire into any issues which may be referred to the

committee by the Minister;

- to recommend the initiation of studies to assist long-term planning for post-secondary education in Alberta; and
- to provide the Minister with access to knowledge and expertise respecting post-secondary education and its relationship to Alberta's economic, scientific, social and cultural objectives.

The Policy Advisory Committee will meet at least three times a year. □

Academic Staff Representative on the Board of Governors

The term of office of one of the two academic staff representatives on the Board of Governors, Dean T.H. White, will end on 31 December 1987. The other representative is V.G. Gourishankar, Department of Electrical Engineering.

Nomination and election procedures for filling this vacancy are available in the University Secretariat, 2-5 University Hall. These regulations provide that at least one of the two representatives must be a full-time member of the teaching faculty who does not hold an administrative position. Since Dr. Gourishankar is a full-time member of the teaching faculty, and since Dr. Gourishankar does not hold an administrative position, the second academic staff position is open to any full-time member of the academic staff whose nomination is supported by the signatures of 5 other full-time members of the academic staff. Such nominations must be received by the director of the University Secretariat by Friday, 4 December 1987, 4:30 p.m.

Full-time members of the academic staff are defined as follows:

- 1) All those persons who, under the Board-AASUA Agreement (Faculty), have been appointed to full-time teaching and research positions on the academic staff of the University of Alberta in which the appointee has, or may be granted, a continuing appointment.
- 2) All those persons who, under the Board-AASUA Agreement (Administrative Professional Officers), have been appointed to full-time APO positions on the academic staff of the University of Alberta in which the appointee has, or may be granted, a continuing appointment.
- 3) All those persons who, under the Board-AASUA Agreement (Librarians), have been appointed to full-time professional librarian positions on the academic staff of the University of Alberta in which the appointee has been or may be granted, tenure.
- 4) All those persons who, under the Board-AASUA Agreement (Faculty Service Officers), have been appointed to full-time FSO positions in Faculties on the academic staff of the University of Alberta in which the appointee has, or may be granted, continuing appointment.

Staff who are on administrative or study leave are not eligible to stand in this election. If you wish to confirm your eligibility as a full-time member of the academic staff, telephone Associate Vice-President B.H. McDonald at 432-4955.

Those full-time academic staff members submitting nominations are asked to ensure that each nominee agrees to the nomination. A brief *vita* of the candidate should accompany the letter of nomination.

All full-time members of the academic staff will receive a ballot in December to elect the academic staff representative to the Board of Governors. The successful candidate will hold a 3-year appointment on the Board of Governors and will hold a concurrent term on General Faculties Council.

For further information, telephone Ellen Schoeck Solomon at 432-5430.



Photo/University of Alberta/OPA

Voilà!

There were many accolades and one travel tip handed out at the official ceremony marking the reopening of the Earth Sciences Building, 10 November. In his remarks, President Horowitz urged the standing room only crowd to travel across the river and see the view of north Edmonton reflected in the front windows of the building. Above, Lynne Duncan, deputy minister of Advanced Education, and John Schlosser, chairman of the Board of Governors, unveil the building directory.

An Invitation

John Oliver, Vice-President and Director,
Elanco Products, Eli Lilly Canada Inc.,

will present the Robert M. Hardy lecture in Engineering,

Tuesday, 24 November, at 4 p.m.

The lecture, titled, "Farming's Future — Economic Stimulator or Social Problem", will be given in L-1 Humanities Centre.

Are Nursing Homes Suitable Places for Alzheimer's Patients?

Buildings are designed to withstand structural stresses. But does anybody think about the stresses the building itself might impose on the people who live in it?

Allen Dobbs and Brendan Rule of the University of Alberta's Lifespan Adult Memory Project are opening some new doors for elderly Alzheimer's Disease (AD) patients living in nursing homes. The result could be a new look at the design of homes for the elderly.

The Dobbs-Rule study of the effect of nursing home environment on Alzheimer's residents challenges some of the widely-held stereotypes of AD elderly as "trespassing", aggressive and easily-lost.

"There's not a single systematic description of what Alzheimer's patients do," says Dobbs. "The picture we do have is inaccurate in many ways." It's based on anecdotes from nursing home staff and non-AD residents who find the occasional disruptive behavior of AD patients very disturbing, and so may tend to "misremember" the rare outbreaks as "happening all the time".

In fact, the Dobbs-Rule study showed the typical elderly Alzheimer's sufferer as "inactively sitting" for 60 to 70 percent of their waking hours. Although the normal elderly person in nursing homes prefers to spend most of the time in his own bedroom, the Alzheimer's resident prefers to be in the lounge, or up and walking.

This raises the question of nursing home design, say the two research psychologists.

The lounge for AD residents in the nursing home studied was the smallest of all the sittingrooms. Would it not make more sense, the researchers ask, to have AD lounges larger and give smaller lounges—but larger bedrooms—to the other residents?

"For Alzheimer's residents, you also want to build an institution that allows for walking, but also for some degree of control," says Dobbs. Subdivisions into square units may work better than having long, straight corridors.

Wandering off is really only an occasional problem, the study found, and walking is in itself "good social behavior". "The AD residents pick up other people, walk arm-in-arm, hand-in-hand. A crowd of them walking down a hallway, linking arms may look strange," says Rule, "but they do

not create trouble." If hallways were wider and there were more room for others to pass, non-demented residents might not feel threatened by this behavior.

In fact, wonder Dobbs and Rule, would it be better for everyone if AD residents were separated from normal residents? In Alberta this segregation is just beginning to happen—although not much is known about the social effects on each group of mixing or segregating. "But if a building for AD residents needs to be different from one for the normal elderly, then that might well answer the question in a very different way," say the researchers. The next phase of their study will look at what changes in physical environment and staff behavior might benefit AD patients.

Their work is supported by Alberta Social Services and Community Health.*□

*Reprinted from Research Report, published by the University's Office of Public Affairs.

Activities



Writer-in-Residence **Leona Gom** has been awarded the Ethel Wilson Fiction Prize for her locally-published novel, *Housebroken* (NeWest, 1986). The \$1,000 prize is awarded annually for "the best work of fiction by a British Columbia author" . . . **Wendy Bryan** (Budget and Statistics) and **Bruce Caldwell** (International Student Affairs) presented a workshop titled "An International Student Survey at the University of Alberta" at the Canadian Bureau for International Education (CBIE) Conference 1987. The conference—"International Education: Keeping the Doors Open"—was held 31 October to 3 November in Quebec City. The workshop, presented on 1 November, discussed some of the results of the survey. The complete report of the survey was recently released to the University community . . . **Bruce Elman** (Law) and **L.C. Green** (University Professor) were among the resource faculty at McGill Law School's conference titled "Nuremberg Forty Years After" . . . **Bill Meilen** (Drama) and his wife, Patricia McKenzie Meilen, attended the full proceedings of the 1987 Frankfurt Book Fair. Professor Meilen who is on leave, writes of "vast halls full of the most wonderful books on every conceivable subject, plus all of the languages of the world around us." He suggests that "our University should have permanent representation here" . . . **Liz Czenczek** and **Bev Wolfert** have been selected to the All-Canadian teams in field hockey. Czenczek was selected to the first team, and Wolfert to the second team.

"Get Thesis Done Fast!" Urges Susan Nattrass, New PhD

When Susan Nattrass, director of Interuniversity Athletics and six-times Women's World Champion in trapshooting, was waiting to be called in to defend her doctoral thesis recently, she confesses to having been "more nervous and more scared than at a world championship."

"But I was well prepared," she adds, "and that's like competing. You're nervous beforehand, but as long as you've done the preparation, you'll be all right." And, as it turned out, academically Nattrass was all right. "I'm doing the revisions now, and have to get them in by December 1st."

Nattrass was eight years collecting and digesting material, and writing her dissertation on "Sport and Television in Canada, 1952-1982."

"Most of that time I was working full-time as well," she explains, "and competing internationally for Canada, too."

"It was hard, but financially I had to. There were times when I felt like saying, 'The hell with it!' and I am sure that outsiders wondered why I even wanted to go through all that pain."

"But I had an excellent topic, and people I had interviewed and

people here had given so much time and effort, I couldn't let them down. And then my family were 3,000 percent supportive, and so were my friends."

Nattrass also acknowledges with gratitude the patience, forbearance and support of the Department of Athletics and Faculty of Graduate

Studies and Research. But her advice to future doctoral candidates is, "Finish off your thesis fast."

"Don't do what I did!" she urges. "It's worth the sacrifice to get it done in three or four years. Otherwise there's a toll taken on relationships and health — and on you, profoundly." □



Moskalyk Receives Squibb Award

R.E. Moskalyk is this year's recipient of the Squibb Award for Excellence in Teaching. The award is presented annually to a staff member of the Faculty of Pharmacy and Pharmaceutical Sciences. Pictured above are (from the left) Dean John Bachynsky, Dr. Moskalyk and George Farley of Squibb Canada.

von Borstel Returns From York With Honorary DSc

Dr. von Borstel (Genetics) was awarded an honorary DSc degree at York University's fall convocation, 7 November.

York awards only one honorary degree at each convocation, and the degree designate presents the convocation address to the graduating students. Dr. von Borstel's remarks came under the heading "Toward an Economics of Science."

The letter of nomination states that Dr. von Borstel is "a world-renowned research scientist with several very major accomplishments to his credit." He was one of the pioneers of the field of radiation genetics at the Oak Ridge National Laboratory. In 1962, he discerned that spontaneous mutation rates differ in mitotic and meiotic cells, thus showing for the

first time that those rates are controlled by the cells themselves.

Dr. von Borstel was also one of the principal designers of the first genetic experiments to be carried out under zero gravity in the NASA Biosatellite Program.

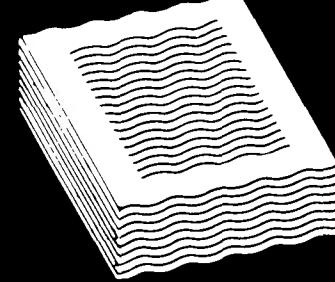
Hand in glove with his research has been a marked interest in science and technology transfer to developing countries. For example, in 1982, he organized a symposium on environmental mutagenesis in Islamabad, Pakistan, a task that included the importation of much of the equipment and chemicals from Canada or the U.S. and the editing and publishing in book form of both the experimental protocols and the various lectures presented.

Dr. von Borstel has merited the esteem of yeast geneticists for his

work as secretary of the continuing biennial International Conferences on Yeast Genetics and Molecular Biology. The most recent entry in this series, in Banff, attracted about 700 yeast geneticists from throughout the world. In the early Sixties, about a dozen people attended the first meeting of the series in Illinois. Very few scientists were interested in yeast genetics at the time; there has been a complete about-face because 1) yeast has become the model system for basic studies on molecular biology of eukaryotes, and 2) yeast is the most important organism for use in contemporary biotechnology.

For his many distinguished contributions to science, Dr. von Borstel received the 1983 Award of Excellence of the Genetics Society of Canada.□

Currents



Bert Knowler to be Honored at Reception

A.S. (Bert) Knowler, Comptroller of the University of Alberta, will retire on 31 December 1987 following 33 years of service. A reception in his honor will be held at the Faculty Club, Upper Lounge, on Tuesday, 8 December, from 4 to 6 p.m.

Mr. Knowler's many friends and acquaintances are invited to attend the reception and extend their good wishes to him.

Anyone wishing to make a donation toward a parting gift for Mr. Knowler may send or deliver the donation to Kaye Wood, Comptroller's Office, 3rd Floor Administration Building. (Please make cheques payable to Knowler retirement gift fund).

R.S.V.P. to Mrs. Kaye Wood, Comptroller's Office, 3rd Floor Administration Building. Telephone 432-4684.

Capital Equipment Purchases

A program has been developed to provide the carry-over of unspent capital equipment funds into the next budget year. This carry-over will be limited to the lesser of 15 percent of the departmental capital equipment budget or \$50,000. Where the balance of unexpended funds is sufficient, commitments incurred by purchase orders placed before 31 December will be allocated a carry-over equivalent to the amount of the commitment.

Where the balance of your unexpended and/or uncommitted capital equipment budget is currently in excess of the foregoing limits, you are urged to place purchase orders for your further needs now to help ensure that delivery is effected before 31 March 1988. The program will not provide a carry-over in relation to commitments by purchase orders placed later than 31 December other than in instances where a well documented justification of circumstances merits exception. Application for exemption should be submitted to the attention of D. Grover, Office of the Comptroller. Final approval on capital equipment carry-overs remains with the Associate Vice-President (Facilities), J.B. McQuitty.

Unexpended funds in excess of the limiting factors will lapse into a Capital Equipment Contingency Account.

Early Communication Development Study

Infants and toddlers needed to fill gaps in subject sample. These include one male at 28 months of age and six females, one at each of the following ages: 13 and 19 months and 21, 22, 23 and 24 months. The study involves one short videotaping session on campus. Contact Gary Holdgrafer, Department of Speech Pathology and Audiology (432-5990).

Successful Final PhD Oral Examinations

Name	Department	Final Thesis Title
Walter Dickie	Biochemistry	"Holliday Structures and DNA Analogues: Metabolism and Structural Dynamics"
Margaret Joan Harrison	Family Studies	"Relationship of Family Environment, Social Support and Infant Behaviour to Maternal Interactions With Term and Preterm Infants"
Chris Michael Herdman	Psychology	"Attention Demands of Visual Word Recognition"
Muhammad Rafiqul Islam	Mining, Metallurgical and Petroleum Engineering	"Mobility Control in Waterflooding Oil Reservoirs With a Bottom-Water Zone"
Richard George Kuhn	Geography	"Geography, Energy, and Environmental Attitudes: An Investigation of Policy Scenarios and Public Preferences"
Mark Lea-McKeown	Elementary Education	"The Importance of Native Music Culture in Education at a Manitoba Ojibwa Reserve from an Ethnological Perspective"
John David MacKinnon	Educational Administration	"Early Childhood Teacher Education: Contextualizing and Interpreting the Student Experience"
Daya Ranjith Muhandiram	Chemistry	"NMR Studies of Chemical Exchange"
Somawantha Hewa	Sociology	"The Genesis of Max Weber's Philosophy of Social Science: The Nature of Classical Sociological Discourse"
Kaluhala Mullage		"The Development of Sport and Television in Canada: 1952-1982"
Susan Marie Natrass	Physical Education and Sport Studies	"A Reliability Study of High School Essay Scoring"
Adell Mona Nyberg	Secondary Education	"An Exploration of LD Learners' Reading Strategies and Their Response to Training"
Michael John O'Grady	Educational Psychology	"Effects of Different Resistance Training Methods on Strength, Impulsive Force and Body Composition"
Busari John Okoro	Physical Education and Sport Studies	"Near Face Behavior of Deep Tunnels in Rock"
Fabrizio Pelli	Civil Engineering	"Studies on the Structure and Immunology of Human Herpes Viruses"
Mark James Redmond	Biochemistry	"What Children Bring To Light: A Study of Personal Orientation to Science Learning"
Bonnie L. Shapiro	Elementary Education	"The Elite and Sport Club Membership in Toronto, 1827-1881"
Bert Wayne Simpson	Physical Education and Sport Studies	"Correlates of the Role Identity of an Organizational Professional: A Study of Canadian Hospital Administrators"
Janet Lynn Storch	Sociology	"An Investigation Into the Mechanism of Respiratory Wheeze in Cardiac Asthma"
Koon Kang Teo	Medicine	"Liberalism and Eighteenth-Century Fiction: A Socialist Feminist Inquiry"
Rhoda June Zuk	English	"Molecular Characterization of Glycoproteins of Herpes Simplex Virus"
John Clarence Zwaagstra	Medicine	

International Opportunities Through AIESEC Traineeship Program

The 1988 National Congress of the International Association of Students in Economics and Commerce (more commonly known by its French acronym, AIESEC) will be held in Edmonton, 6 to 10 January. Delegates will be drawn from the 36 local associations on university campuses across Canada, and international student representatives will attend as well.

AIESEC is a student-run organization whose objective is to establish contact and develop cooperation on an international level between students and the business community, to help bridge the gap between the theoretical university education and the practical business world. This is accomplished to a large extent through a traineeship program.

which gives Canadian employers access to the cream of the crop of international economics, commerce and computing science students, as positions in Canada are in high demand and at least five applicants compete for each position.

Through AIESEC, an employer needing someone to work on a special project for a long or short term, or just for a peak period, can hire an internationally-trained and highly motivated student from another country to work in any field related to business. Eighty-five percent of AIESEC trainees have already graduated from university. Thirty-five percent of them have MBAs.

For information on how to tap into the traineeship program, or to join AIESEC, call 432-2435. □

Czechoslovak, Italian Immersed in Our Geotechnical Engineering Initiatives

The geotechnical group of the Department of Civil Engineering is hosting two long-term visitors.

Jan Rybar, of the Institute of Geology and Geotechnique, Czechoslovak Academy of Sciences, Prague, is here under the bilateral exchange program sponsored by the Natural Sciences and Engineering Research Council of Canada. During his two-month visit, Dr. Rybar will acquaint himself with research work carried out at the University of Alberta on problems of slope stability in rock and soils and on the application of

observational method to control the stability in open-pit mines.

Stefano Aversa, of the Geotechnical Institute, University of Naples, came to Edmonton to familiarize himself with the unique laboratory facilities for geotechnical testing under high pressures and high temperatures, developed at this University. His research is directed toward understanding the bradyseism (slow movement of earth crust) causing crustal uplift in the vicinity of Naples. He will on campus until Christmas. □

Invitations Extended for Noon Hour Run

They'll be panting in the Pavilion next Friday (27 November).

Campus Recreation is laying on a 4000m team relay. Each mixed gender team will consist of two females and one male or the reverse of this. Each runner must appear twice in the event which contains legs of varying distances: 1200m, 200m, 1200m, 200m, 1000m, 200m, in that order.

The entry fee is \$9 per team. Individual entries will be accepted at \$3 each. Individual runners will be drawn into trios for the event.

Two timed finals will be run, starting at 12:15 p.m. Winners will be declared on the basis of time. Entry forms and complete rules are

available at Campus Recreation, W-90 Van Vliet Centre.

A unique set of prizes and awards will be given to the winners and to other competitors by draw. □

Talks

Cross Cancer Institute

20 November, noon. Gadeski Visiting Professor Sandra M. Levy, Departments of Psychiatry and Medicine, University of Pittsburgh, "Coping Styles, Immune Functions, and Cancer." Auditorium, Cross Cancer Institute.
20 November, 3:30 p.m. Professor Levy, "Therapeutic Value of Social Support and Optimism." Auditorium, Cross Cancer Institute.

Plant Science

20 November, 12:30 p.m. T. Ashok, "Recent Advances in Techniques of Hydroponic Crop Production." 1-06 Agriculture-Forestry Centre.
24 November, 12:30 p.m. S. Sanscartier, "The Use of Pesticide Exposure Studies in Risk Assessment." 1-06 Agriculture-Forestry Centre.

Europe" (in Polish). Heritage Lounge, Athabasca Hall.

27 November, 11 a.m. Piotr Wandycz, "Polish Foreign Policy During World War II." TB-5 Tory Building.
27 November, 8 p.m. Professor Wandycz, "Historical Identity of East Central Europe" (in English). Heritage Lou, Athabasca Hall.

Art History Colloquium

20 November, 3 p.m. Bridget J. Elliott, "The Visual Construction of Cultural Consensus: A Case Study of Representation of London Music Halls 1880-1914." 2-28 Fine Arts Building.

Boreal Institute For Northern Studies

24 November, 12:30 p.m. Joan Ryan, Department of Anthropology and Arctic Institute of North America, University of Calgary, "Genocidal Consequences: The Destruction of the Lubicon Lake Cree Community." 14-6 Tory Building.
1 December, 12:30 p.m. Ian MacLaren, "Who Wrote Arctic Exploration Literature?" 14-6 Tory Building.

Women's Studies

24 November, 3:30 p.m. F. Hare, St. Stephen's College, "Feminist Theology." 5-20 Humanities Centre.
26 November, 3:30 p.m. D. Shogan, "Gender and Moral Agency." 5-20 Humanities Centre.

Genetics

24 November, 4 p.m. Martine Jaworski, "Genetic Epidemiology of Old Colony Mennonites." M-149 Biological Sciences Centre.

Sociology

25 November, noon. Terry Belke, "Co-opting the Consumer: Brand Names, Soda Pop and Consumer Preference." 5-15 Tory Building.

Anthropology

25 November, noon. Marc Stevenson, "Archaeology and Heritage Development in an Arctic Community." 14-6 Tory Building.

Forest Science

25 November, noon. Don Thomas, Canadian Forestry Service, "Effects of Fire on Caribou Winter Range in North-Central Canada." 4-1 Mechanical Engineering Building.
2 December, noon. Jim Clark, "Industrial Forestry in Alberta." 4-1 Mechanical Engineering Building.

Applied Sciences in Medicine

25 November, 2 p.m. Ahmed S. Abutaleb, Department of Electrical Engineering, Temple University, Philadelphia, "Adaptive Noise Cancelling and Line Enhancement in Physiological Signals." 10-115 Clinical Sciences Building.
27 November, 10 a.m. Ahmed Abutaleb, "Change Detection in Image Sequences: Cardiac Studies, Stomach Emptying and Tumor Analysis." Classroom F, 2J4.02 Mackenzie Health Sciences Centre.

Religious Studies

25 November, 3 p.m. Bruce Miller, "What is the Religion of Religious Studies?" 4-29 Humanities Centre.

Computing Science

25 November, 3:30 p.m. Alan K. Macworth, Computer Science, University of British Columbia, and Canadian Institute for Advanced

Research, "The Logic of Depiction." 619 General Services Building.

Physics

25 November, 3:30 p.m. A. Ghizzo, Ir. 't de recherche d'Hydro-Québec, "Electrical Vlasov Stimulation of the Stimulated Raman Scattering in Plasmas." 631 Physics Building.

Family Studies

25 November, 3:30 p.m. Barb Mahaffey, "Second Time Around: Premarital Programming for Remarried." 812 General Services Building.

East Asian Languages and Literatures, Office of the Vice-President (International Affairs) and Comparative Literature

25 November, 3:30 p.m. Chen Danchen, editor of the *Literary Gazette* (Beijing), "Literature and Literary Criticism in China Today" (in Chinese with English interpretation). L-2 Humanities Centre.

Alberta Heritage Foundation for Medical Research

25 November, 4 p.m. Izchak Steinberg, Professor of Chemical Physics, The Weizmann Institute of Science, Rehovot, Israel, "Noise as a Source of Information About the Physico-Chemical Properties of Biopolymers and Ionic Channels." 470 Medical Sciences Building. Hosted by Biochemistry.

Botany

25 November, 4 p.m. Peter L. Achuff, "Natural Features of the Arjin Mountains Nature Reserve, Xinjiang, China." M-149 Biological Sciences Building.

2 December, 4 p.m. Elizabeth John, "Microhabitat Preferences Amongst the Species of a Saxicolous Lichen Community." M-149 Biological Sciences Building.

Alberta Centre for Machine Intelligence and Robotics (ACMIR)

26 November, 10:15 a.m. Ahmed S. Abutaleb, Department of Electrical Engineering, Temple University, Philadelphia, "Target Tracking, Auto Thresholding and Image Enhancement in Robot Vision." P-319N Biological Sciences Centre.

Limnology and Fisheries Discussion Group

26 November, 12:30 p.m. Pat Chambers, "Light and Colour and its Effect on Aquatic Plant Distribution in Prairie Lakes." M-149 Biological Sciences Centre.

3 December, 12:30 p.m. Pat Chow-Fraser, "Aspects of Mating Behaviour and Reproduction in Three Species of Calanoid Copepods." M-149 Biological Sciences Centre.

Soil Science

26 November, 12:30 p.m. M. Rutherford, "Dynamics of Nitrogen, Microbial Biomass, and Soil Fauna in a Gray Luvisolic and a Black Chernozemic Soil Cropped to Barley." 2-36 Earth Sciences Building.

Music

26 November, 3:30 p.m. Wesley Berg, "W.J. Hendra: Welsh Musician in Edmonton." 2-34 Fine Arts Building.

Mathematics

26 November, 4 p.m. S. Sivaloganathan, "Conjugate Gradient and Multigrid Techniques in Computational Fluid Dynamics." 657 CAB.

Entomology

26 November, 4 p.m. M. Zimmermann, "Lifecycle, Population Dynamics and Prey Use of *Dolomedes triton*." 2-35 Earth Sciences Building.

Faculté Saint-Jean

26 November, 7:30 p.m. M. Roger B. Hamel, président de la Chambre de Commerce du Canada, "La politique fédérale et son impact sur l'économie du Canada." Auditorium.

History

27 November, 3:05 p.m. Jim Handy, University of Saskatchewan, "The Army Against the Village: Resurgent Democracy, Military Intervention and Peasant Organization in Guatemala." 2-58 Tory Building.

Law

28 November, 9:30 a.m. A seminar on "Maintenance Enforcement." Law Centre.

English

30 November, 4 p.m. Brahma Chaudhuri, "Scholarly Publishing in the Eighties: Trends and Perspectives." 5-20 Humanities Centre.

Anatomy and Cell Biology

1 December, 4 p.m. David Ryugo, Associate Professor, Johns Hopkins University, Baltimore, "Single Cell Studies of the Auditory Nerve." 5-10 Medical Sciences Building.

Rehabilitation Medicine

2 December, noon. Peter Pang, "Studies on Natural Calcium Antagonists." 109 Corbett Hall Trailers.

East Asian Languages and Literatures and Political Science

2 December, 3:30 p.m. Chen Danchen, editor of the *Literary Gazette* (Beijing), and Charles Burton, "Chinese Cultural Policy Post-Mao and the *Literary Gazette*." 1-15 Humanities Centre.

The Arts

McMullen Gallery, Mackenzie Health Sciences Centre

November and December. "British Watercolours."

Home Economics

Until 23 November. "Babes in

Thailand" — children's hats of the Hill Tribes.

Bruce Peel Special Collections Library

Until 27 November. "Great Scott! The Literary World of Sir Walter Scott." First and early editions of Scott's poems and novels with those of his predecessors and contemporaries, accompanied by Scott's lively comments upon them. 8:30 a.m. to 4:30 p.m. Monday-Friday (closed weekends). B7 Rutherford South.

FAB Gallery

Until 29 November. Paintings by Elmer Bischoff.
Until 29 November. "Everyday Art of Central and South Asia."

Ring House Gallery

22 November to 13 December. "Disrupted Lives: Children's Drawings from Central America."

SUB Theatre

20 November, 8 p.m. "Dragnet."
21 November, 8 p.m. "Raising Arizona."
22 November, 8 p.m. "The Untouchables."
23 and 24 November, 8 p.m. Rita MacNeil and Friends in Concert.
25 November, 8 p.m. The National Ballet School of Canada presents "Talent on Tour." For free tickets, call 1-800-387-0785.
27 November, 8 p.m. "Full Metal Jacket."
28 November, 8 p.m. Grand master of the sitar, Vilayat Khan. 456-8052.
29 November, noon. The Castledowns School of Dance Parents' Association presents "Christmas Dream Show." 455-1094.

Music

All events take place in Convocation Hall unless otherwise noted.
22 November, 3 p.m. Recital of Canadian piano music by students of Ernesto Lejano in celebration of Canada Music Week.
22 November, 8 p.m. The University of Alberta Symphonic Wind Ensemble - Fordyce Pier, director.
24 November, 8 p.m. New Music at the University of Alberta—works by faculty composers in celebration of Canada Music Week.
25 November, noon. Recital presented by Department of Music students. Third Floor Stairwell, Fine Arts Building.
25 November, 8 p.m. Chamber Music Concert.

26 November, 8 p.m. Chamber Music Concert.
30 November, 8 p.m. The University of Alberta Stage Band—Neil Corlett, conductor.

Edmonton Chamber Music Society

2 December, 8 p.m. The Hertz Trio. 433-8102.

Sports

Basketball

27 November, 6:30 p.m. Pandas vs. University of Saskatchewan.

27 November, 8:15 p.m. Golden Bears vs. Saskatchewan.
28 November, 6:30 p.m. Pandas vs. Saskatchewan.
28 November, 8:15 p.m. Golden Bears vs. Saskatchewan.

Hockey

27 November, 7 p.m. Golden Bears vs. University of Regina.
28 November, 7 p.m. Golden Bears vs. Regina.

Swimming

28 November, 8 a.m. Golden Bears Invitational #1.

Award Opportunities

The Killam Exchange Scholarships with France

Field of Study: Open. *Number:* Three. *Conditions:* Each year the University of Alberta recommends to the Government of France three graduating students for positions as "Assistants" in either secondary or post-secondary French educational institutions. The students participate in this cultural exchange for nine months (October-June). The rate of pay is subsistence level; lodging and meals can often be obtained at a reduced rate. Proficiency in written and oral French is required. The applicant must be a Canadian citizen under 30 years of age and a resident of Alberta for the past five years. *Donor:* The Killam General Endowment Fund and the Government of France. *Apply:* Director of Student Awards by 1 December.

The German Academic Exchange Scholarship

Field of Study: Open. *Value:* Tuition fees and living allowance for ten months beginning 1 October 1988. *Number:* One. *Conditions:* Applicants must be Canadian citizens, have a first degree by the date of tenure, not more than 32 years of age, and be sufficiently fluent in the German language. *Where tenable:* At a German university or an academy of art or music. *Donor:* The Federal Republic of Germany. *Apply:* By letter to the Director of Student Awards by 1 December. Letter should include academic background, study plans in Germany and projected plans after return.

The Aileen Charlotte Driscoll Scholarship

Field of Study: Education. *Number:* One. *Value:* \$3,000. *Conditions:* Awarded to a deserving honors student graduating with a BEd degree to allow the recipient to continue his or her studies of French in France. A condition of the award is that each recipient will subsequently teach at least one year in the Province of Alberta. *Donor:* Endowed by the late Aileen Charlotte Driscoll of Edmonton. *Apply:* Letter to Director of Student Awards by 1 December of the year prior to when the award is to be held.

Positions

The University of Alberta is an equal opportunity employer.

In accordance with Canadian Immigration requirements, these advertisements are directed to Canadian citizens and permanent residents.

Chairman, Department of Physical Therapy

Applications are invited for the position of Chairman of the Department of Physical Therapy. The Department of Physical Therapy is located within the Faculty of Rehabilitation Medicine and offers a BSc and MSc degree in Physical Therapy. Specific responsibilities include: leadership in undergraduate and graduate program development and development of an active research program.

Qualified candidates should be physical therapists who have a background in administration and teaching as well as a demonstrated commitment to research. A doctoral degree is required. Salary will be commensurate with qualifications (Associate Professor range: \$39,620 to \$57,236 per year; Full Professor floor: \$50,630 per year). Position is available 1 July 1988.

Closing date for applications: 30 March 1988. Send *curriculum vitae* and three references to: Dr. Martha C. Piper, Dean, Faculty of Rehabilitation Medicine, University of Alberta, 316 Corbett Hall, Edmonton, Alberta, T6G 2G4.

Support Staff

To obtain further information on the following positions, please contact Personnel Services and Staff Relations, 2-40 Assiniboia Hall, telephone 432-5201. Due to publication lead time and the fact that positions are filled on an on-going basis, these vacancies cannot be guaranteed beyond 13 November. For a more up-to-date listing, please consult the weekly Employment Opportunities Bulletin and/or the postings in PSSR.

Clerk Typist III, Centre for Cooperative Education, (\$1,366-\$1,716)

Clerk Steno III (Half-time/Trust), Surgery, (\$1,366-\$1,716) (pro-rated)

Secretary (Half-time), Mathematics (Applied Math Institute),

(\$1,522-\$1,945) (pro-rated)

Secretary (Medical) (Half-time),

Department of Medicine, (\$1,522-\$1,945) (pro-rated)

Secretary, Dean of Engineering, (\$1,522-\$1,945)

Secretary, Home Economics (Foods and Nutrition), (\$1,522-\$1,945)

Secretary, Dean of Science, (\$1,522-\$1,945)

Secretary (Trust), Faculté Saint-Jean, (\$1,522-\$1,945)

Departmental/Executive Secretary,

Physical Plant Administration, (\$1,716-\$2,208)

Departmental/Executive Secretary, Zoology, (\$1,716-\$2,208)

Photographer I (Part-time), Office of the Dean of Dentistry, (\$763-\$948)

Animal Technician I (Term), Biosciences Animal Services, (\$1,580-\$2,027)

Storeman II (Assistant Supervisor),

Materials Management - Scheduled Distribution (\$1,716-\$2,208)

Administrative Assistant I (Trust), Legal Resource Centre, (\$1,945-\$2,510)

Administrative Assistant I, Faculty of Extension, (\$1,945-\$2,510)

Biochemistry Technologist I (Trust), McEachern Laboratory, (\$1,945-\$2,510)

Electronics Technician III, Electrical Engineering, (\$2,115-\$2,741)

Technologist II (Textiles), Home Economics, (\$2,115-\$2,741)

Technologist II (Trust), Obstetrics and Gynaecology, (\$2,115-\$2,741)

Pharmacist (Part-time), University Health Service, (\$2,115-\$2,741)

(pro-rated)

For vacant Library positions, telephone 432-3339.

Advertisements

Accommodations available

Sale - Perfect hideaway west of city. Secluded, 1,600', cozy bungalow. For details, call Chris Tenove, 433-5664, 436-5250. Spencer Realty.

Sale - Sherwood Park. Two homes. Good floor plans. Large yards. Immediate possession. Chris Tenove, 433-5664, 436-5250. Spencer Realty.

Sale - Walk to University. Renovated semi-bungalow in Parkallen. Four bedrooms, skylite. Chris Tenove, 433-5664, 436-5250. Spencer Realty.

Sale - \$39,500. University area condominium. Immediate possession. Financing available. Chris Tenove, 433-5664, 436-5250. Spencer Realty.

Sale - Financing available. Large city lots. Buy now, build later. Chris Tenove, 433-5664, 436-5250. Spencer Realty.

Rent - Furnished bungalow. Three bedrooms, fireplace, 1 1/2 baths, double garage. Fifteen minutes University. Available January 1988 or earlier to August 1988. \$700/month. 436-9591 evenings.

Rent - Riverbend home, furnished/unfurnished, ten minutes from campus. 2,700', four bedrooms, 2 1/2 baths, den. Large, sunny, living-room area, kitchen. Available 1 January-31 July. \$1,250/month. 430-6196, 441-4801.

Rent - Charming home near University and downtown. Mature trees, fenced garden, two bedrooms, den with balcony. Living, dining and family rooms. Appliances. Available January or February. \$900. 488-7627, call anytime.

Rent - Two bedrooms, two floors, great location, till August 1988. \$400. Phone soon, 465-6915.

Rent - University Avenue. Two-bedroom bungalow, large living room, fireplace. (Two-bedroom suite, basement.) Garage. Immediately. References. \$750. 439-9733 evenings.

Sale - Windsor Park. Well-constructed, three-bedroom bungalow in prime

location. Renovated Poggendorf kitchen, jacuzzi, two bathrooms, developed basement, double garage. \$165,000. 433-8667.

Sale - Hampton Village. Fireplace, south exposure. Offers to \$83,900. Ronn Bence, 438-5100, 436-6296. Royal LePage.

Sale - Owners moving to California. This beautiful, four-bedroom home with main floor den and family room must be sold immediately. Lovely Riverbend location. Ann Dewart, Spencer Realty, 436-5250, 430-6971.

Sale - Old Riverbend. Gigantic lot with privacy. Completely upgraded throughout, including jacuzzi, three fireplaces, greenhouse, new flooring, broomroom and maintenance-free exterior. Liz Crockford, Spencer Real Estate, 436-5250, 434-0555.

Sale - Lansdowne. 2,500 sq. ft., two-storey home just listed. Five bedrooms, four bathrooms, quality finishing, private, west backyard. Liz Crockford, Spencer Real Estate, 436-5250, 434-0555.

Rent - One- and two-bedroom flats in Harley Street, London, long or short occupancy till summer 1988. 011-44-1-580-0731 (noon).

Accommodations wanted

Study leave visitor looks for furnished room or bachelor. January-April 1988. 432-5679, (unix:bogdan).

Goods for sale

Kenwood stereo amplifier, full controls, 80 watts per channel. Excellent condition. \$150. 482-1155 evenings.

Services

Donnic Word Processing. Specializing in theses, manuscripts, etc. 8315A 105 St. 432-1419.

Backaches? Stress tension? Special therapy at Back-Basics (supplementary health care reimburses treatment costs). Maria Krieg is a spine specialist, university-trained in Düsseldorf. 11610 75 Avenue. 436-8059.

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Charwood Holidays. An outdoor experience exploring mountains, forests and beaches on Vancouver Island. Walk, hike, ski and stay in a beach cottage. Brochure: Box 1851, Qualicum Beach, B.C. V0R 2T0. (604) 752-2545.

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